

aiwa

COMPACT DISC STEREO SYSTEM

NSX-S202

OPERATING INSTRUCTIONS

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

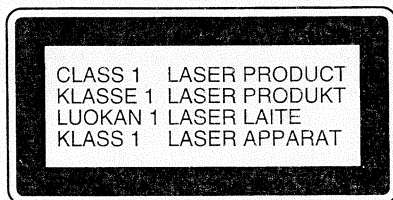
	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	ATTENTION RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR	
CAUTION TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.			

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

This compact disc player is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT label is located on the exterior.



CAUTION!



Invisible laser radiation when open and inter locks defeated. Avoid exposure to beam.

WARNING

This appliance is supplied with a fitted three pin mains plug. A 3 amp fuse is fitted in the plug. Should the fuse need to be replaced, use a 3 amp fuse approved by ASTA or BSI to BS1362. When replacing the fuse, you must ensure that any removable fuse covers are correctly refitted. If you should lose the fuse cover, please contact your nearest AIWA dealer.

DO NOT CUT OFF THE PLUG FROM THIS APPLIANCE. If the plug fitted is not suitable for the power points in your home, or the cable is too short to reach a power point, obtain an appropriate safety approved extension lead or adaptor. If in any doubt please consult a qualified electrician.

If the plug is cut off, remove the fuse and dispose of the plug immediately. **THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMP SOCKET.**

If a new plug is to be fitted please ensure it contains a 3 amp fuse, otherwise the circuit should be protected by a 5 amp fuse at the distribution board.

IMPORTANT

The wires in the mains lead are coloured in accordance with the following code:

BLUE —	NEUTRAL
BROWN —	LIVE

As the colours of the wires in the mains lead of this appliance may not correspond with the colour markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured BLUE must be connected to the terminal which is marked by the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal which is marked by the letter L or coloured RED.

DO NOT connect either the BLUE or BROWN wires in the mains lead to the earth terminal (marked with the letter E or by the earth symbol $\perp$ or coloured GREEN or GREEN/YELLOW) of a three pin plug.

PRECAUTIONS

Read the Operating Instructions carefully and completely before operating the unit. Be sure to keep the Operating Instructions for future reference. All warnings and cautions in the Operating Instructions and on the unit should be strictly followed, as well as the safety suggestions below.

Installation

- 1 Water and moisture** — Do not use this unit near water, such as near a bath, sink, swimming pool, or the like.
- 2 Heat** — Do not use this unit near sources of heat, including heating vents, stoves, or other appliances that generate heat. It also should not be placed in temperatures less than 5°C (41°F) or greater than 35°C (95°F).
- 3 Mounting surface** — Place the unit on a flat, even surface.
- 4 Ventilation** — The unit should be situated with adequate space around it so that proper heat ventilation is assured. Allow 10 cm (4 in.) clearance from the rear and the top of the unit, and 5 cm (2 in.) from each side.
 - Do not place the unit on a bed, rug, or similar surface that may block the ventilation openings.
 - Do not install the unit in a bookcase, cabinet, or airtight rack where ventilation may be impeded.
- 5 Objects and liquid entry** — Take care that objects or liquids do not get inside the unit through the ventilation openings.
- 6 Carts and stands** — When placed or mounted on a stand or cart, the unit should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the unit or cart to overturn or fail.
- 7 Condensation** — Moisture may form on the CD pickup lens when:
 - The unit is moved from a cold spot to a warm spot
 - The heating system has just been turned on
 - The unit is used in a very humid room
 - The unit is cooled by an air conditioner
 When this unit has condensation inside, it may not function normally. Should this occur, leave the unit for a few hours, then try to operate again.
- 8 Wall or ceiling mounting** — The unit should not be mounted on a wall or ceiling, unless specified in the Operating Instructions.

Electric Power

- 1 Power sources** — Connect this unit only to power sources specified in the Operating Instructions, and as marked on the unit.
- 2 AC power cord**
 - When disconnecting the AC power cord, pull it out by the AC power plug. Do not pull the cord itself.
 - Never handle the AC power plug with wet hands, as this could result in fire or shock.
 - Power cords should be firmly secured to avoid being severely bent, pinched, or walked upon. Pay particular attention to the cord from the unit to the power socket.
 - Avoid overloading AC power plugs and extension cords beyond their capacity, as this could result in fire or shock.
- 3 When not in use** — Unplug the AC power plug from the AC power socket if the unit will not be used for several months or more. When the cord is plugged in, a small amount of current continues to flow to the unit, even when the power is turned off.

Maintenance

Clean the unit only as recommended in the Operating Instructions.

Damage Requiring Service

Have the units serviced by a qualified service technician if:

- The AC power cord or plug has been damaged
- Foreign objects or liquid have got inside the unit
- The unit has been exposed to rain or water
- The unit does not seem to operate normally
- The unit exhibits a marked change in performance
- The unit has been dropped, or the cabinet has been damaged

DO NOT ATTEMPT TO SERVICE THE UNIT YOURSELF.

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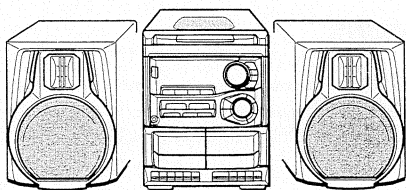
GENERAL

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CONNECTIONS

Check your system and accessories

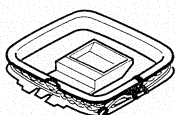


CX-NS202 Compact disc stereo cassette receiver
SX-NS202 Front speakers

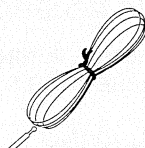
Remote control



MW/LW loop antenna



FM antenna



Operating Instructions, etc

Before connecting the AC cord

The rated voltage of your unit shown on the rear panel is 230 V AC. Check that the rated voltage matches your local voltage.

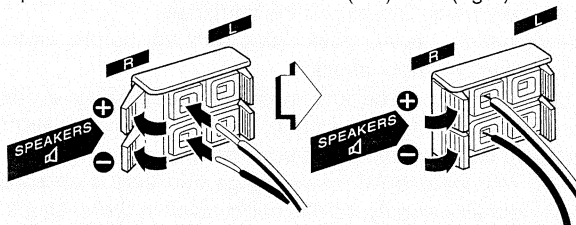
IMPORTANT

Connect the speakers, antennas, and all optional equipment first. Then connect the AC cord.

1 Connect the right and left speakers to the main unit.

Connect the right speaker cord to the SPEAKERS R terminals, and left to the SPEAKERS L terminals.

There are no differences between the front speakers. Both speakers can be connected as L (left) or R (right).

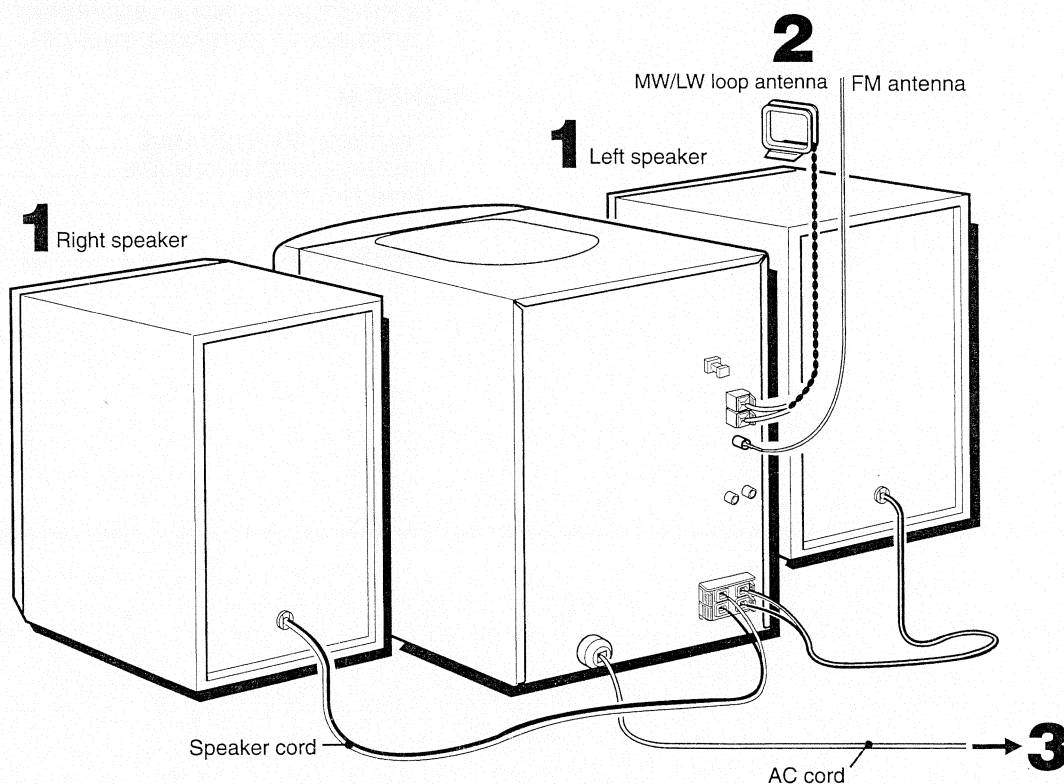
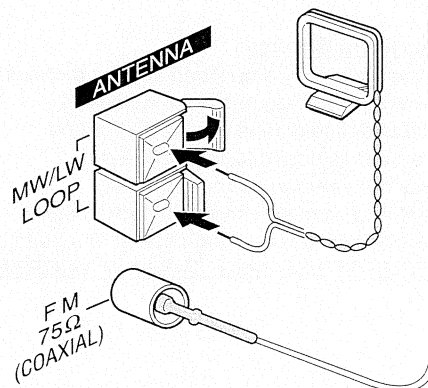


The speaker cord with the white stripe should be connected to the $\oplus$ terminal and the black cord to the $\ominus$ terminal.

2 Connect the supplied antennas.

Connect the FM antenna to the FM 75 Ω terminal and the MW/LW antenna to the MW//LW LOOP terminals.

MW/LW loop antenna FM antenna



3 Connect the AC cord to an AC outlet.

NOTE

When the AC cord is connected, all the characters may light up on the display. In this case, disconnect the AC cord. Then, connect it again.

To position the antennas

FM unipolar antenna:

Extend fully and position for the best possible reception.

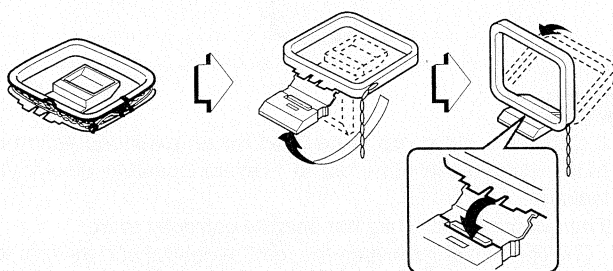
This antenna is of an instant type, so the use of an outdoor antenna is recommended.

MW/LW loop antenna:

Position for the best reception.

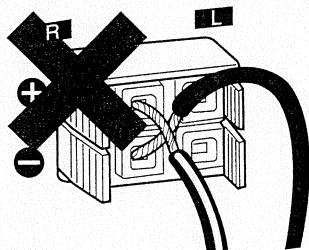
To stand the MW/LW antenna on a surface

Fix the claw to the slot.



NOTE

- Be sure to connect the speaker cords correctly. Improper connections can cause short circuits in SPEAKERS terminals.

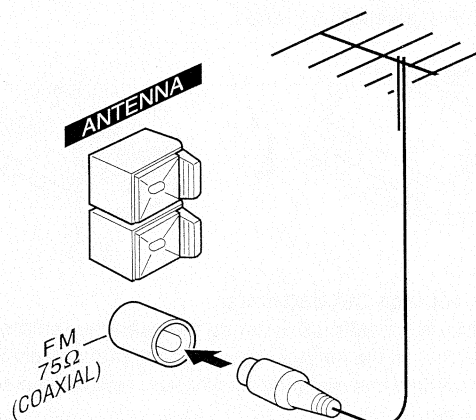


- Do not leave objects generating magnetism near the speakers.
- Do not bring the FM antenna near metal objects or curtain rails.
- Do not bring the MW/LW antenna near other optional equipment, the stereo system itself, the AC cord or speaker cords, since noise will be picked up.
- Do not unwind the MW/LW antenna wire.

CONNECTING AN OUTDOOR ANTENNA

For better FM reception, use of an outdoor antenna is recommended.

Connect the outdoor antenna to the FM 75 Ω terminal.

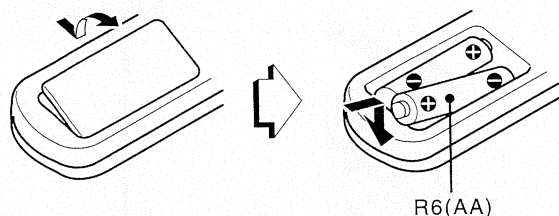


To connect other optional equipment → page 17.

REMOTE CONTROL

Inserting batteries

Detach the battery cover on the rear of the remote control and insert two R6 (size AA) batteries.



When to replace the batteries

The maximum operational distance between the remote control and the sensor on the main unit should be approximately 5 metres (16 feet). When this distance decreases, replace the batteries with new ones.

To use the SHIFT button on the remote control

Buttons ① have two different functions. One of these functions is indicated on the button, and the other on the plate above the button.

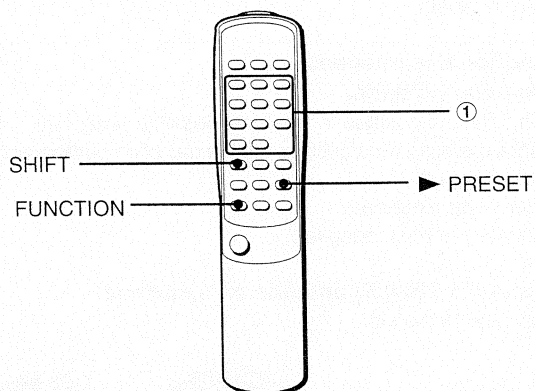
To use the function on the button, simply press the button.

To use the function on the plate above the button, press the button while pressing the SHIFT button.

To use the FUNCTION button on the remote control

The FUNCTION button substitutes for the function buttons (TAPE, TUNER, VIDEO/AUX, CD) on the main unit.

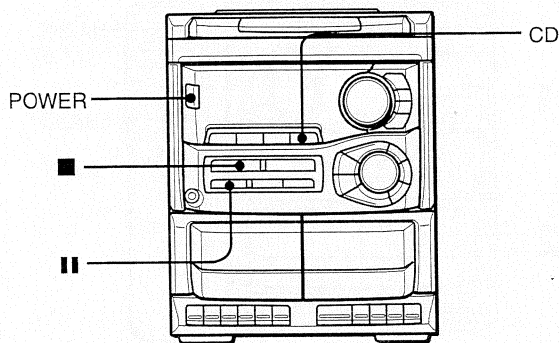
Each time the FUNCTION button is pressed, the next function is selected cyclically.



NOTE

- If the unit is not going to be used for an extended period of time, remove the batteries to prevent possible electrolyte leakage.
- The remote control may not operate correctly when:
 - The line of sight between the remote control and the remote sensor inside the display window is exposed to intense light, such as direct sunlight
 - Other remote controls are used nearby (those of a television, etc.)

BEFORE OPERATION



To turn the unit on

Press one of the function buttons (TAPE, TUNER, VIDEO/AUX, CD).

Playback of the inserted disc begins, or the previously tuned station is received (Direct Play Function).

The POWER button is also available.

When the unit is turned on, the disc compartment may open and close to reset the unit.

DEMO (Demonstration) mode

When the AC cord is connected, the display window demonstrates the functions of the unit. When the power is turned on, the DEMO display is overridden by the operation display. When the power is turned off, the DEMO mode is restored.

To cancel DEMO mode

Press the ■ SET button while the power is off. The clock appears on the display. (To set the current time, see "SETTING THE CLOCK" on page 15.) To re-activate DEMO mode, press the ► button while the power is off.

Flash window

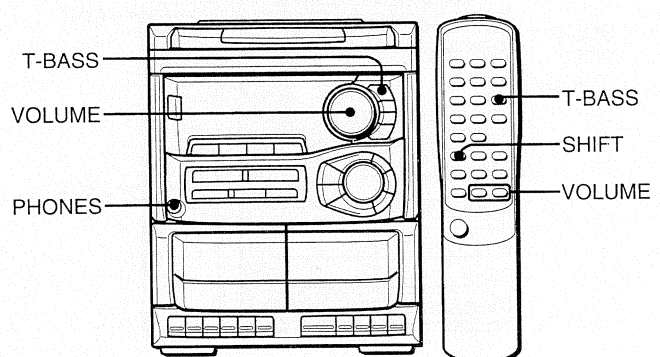
The window on the top of the unit lights up or flashes while the unit is being powered on.

To turn off the light of the top window, press the ■ button while pressing the CD button. To turn back on, repeat the above.

To turn the unit off

Press the POWER button.

AUDIO ADJUSTMENTS



VOLUME

Turn the VOLUME control on the main unit, or press the VOLUME buttons on the remote control.

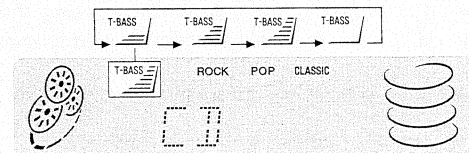
The volume level is displayed as a number from 0 to MAX (31). The volume level is automatically set to 16 when the power is turned off with the volume level set to 17 or more.

SUPER T-BASS SYSTEM

The T-BASS system enhances the realism of low-frequency sound.

Press the T-BASS button.

Each time it is pressed, the level changes. Select one of the three levels, or the off position to suit your preference.



To select with the remote control

Press the T-BASS button while pressing the SHIFT button.

NOTE

Low frequency sound may be distorted when the T-BASS system is used for a disc or tape in which low frequency sound is originally emphasized. In this case, cancel the T-BASS system.

To dim the illumination of the display

- 1 Press the CLOCK button twice while pressing the SHIFT button on the remote control, then, press ■ SET within 4 seconds.
- 2 Within 4 seconds, press the ◀◀ or ▶▶ button repeatedly on the remote control to select the dimmer mode as follows.



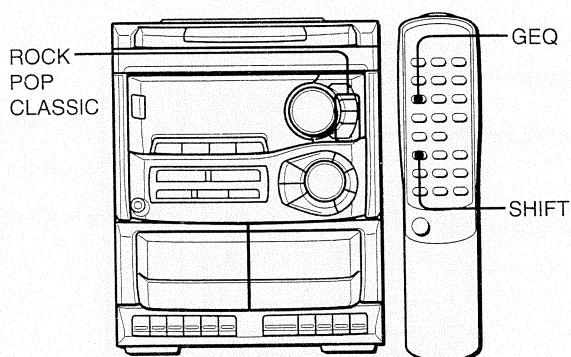
- 3 Press the ■ SET button within 4 seconds.

DIMMER 1: The illumination of the display is dimmer than usual.

DIMMER 2: The illumination of the display is dimmer than DIMMER 1, and the window on the top of the unit lights off.

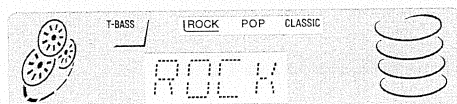
DIM-OFF: The normal display is resumed.

GRAPHIC EQUALIZER



This unit provides the following three different equalization curves.
ROCK: Powerful sound emphasizing treble and bass.
POP: More presence in the vocals and midrange.
CLASSIC: Enriched sound with heavy bass and fine treble.

Press one of the **GRAPHIC EQUALIZER** buttons.

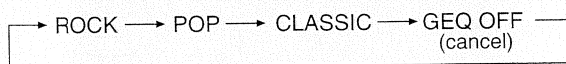


To cancel the selected mode

Press the selected button again. "GEQ OFF" is displayed.

To select with the remote control

Press the GEQ button repeatedly while pressing the SHIFT button. The GEQ mode is displayed cyclically as follows.



NOTE

Sound may be distorted when the ROCK or CLASSIC is selected in which low frequency sound is originally emphasized. In this case, cancel the selected mode.

Using the headphones

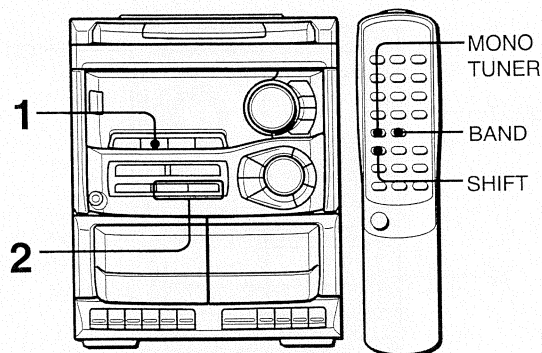
Connect headphones to the PHONES jack with a standard stereo plug (ø6.3 mm, 1/4 inch).
 No sound is output from the speakers while the headphones are plugged in.

Sound adjustment during recording

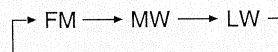
The output volume and tone of the speakers or headphones may be freely varied without affecting the recording.

RADIO RECEPTION

MANUAL TUNING



1 Press the **TUNER/BAND** button repeatedly to select the desired band.



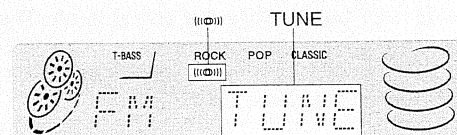
When the TUNER/BAND button is pressed while the power is off, the power is turned on directly.

To select a band with the remote control

Press the BAND button while pressing the SHIFT button.

2 Press the **◀ DOWN** or **▶ UP** button to select a station.

Each time the button is pressed, the frequency changes.
 When a station is received, "TUNE" is displayed for 2 seconds.
 During FM stereo reception, ((Ⓢ))) is displayed.



To search for a station quickly (Auto Search)

Keep the **◀ DOWN** or **▶ UP** button pressed until the tuner starts searching for a station. After tuning in to a station, the search stops.

To stop the Auto Search manually, press the **◀ DOWN** or **▶ UP** button.

- The Auto Search may not stop at stations with very weak signals.

When an FM stereo broadcast contains noise

Press the MONO TUNER button while pressing the SHIFT button on the remote control so that "MONO" appears on the display. Noise is reduced, although reception is monaural.
 To restore stereo reception, press these buttons so that "MONO" disappears.

To change the MW tuning interval

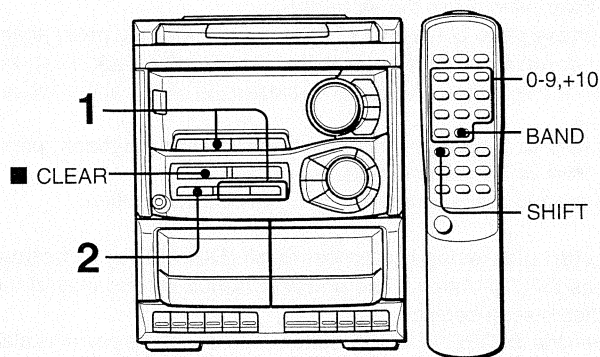
The default setting of the MW tuning interval is 9 kHz/step. If you use this unit in an area where the frequency allocation system is 10 kHz/step, change the tuning interval.
 Press the POWER button while pressing the TUNER/BAND button.

To reset the interval, repeat this procedure.

NOTE

When the MW tuning interval is changed, all preset stations are cleared. The preset stations have to be set again.

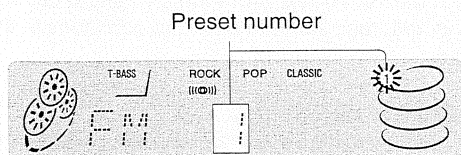
PRESETTING STATIONS



The unit can store a total of 32 preset stations. When a station is stored, a preset number is assigned to the station. Use the preset number to tune in to a preset station directly.

- 1 Press the TUNER/BAND button to select a band, and press the ◀◀ DOWN or ▶▶ UP button to select a station.**
- 2 Press the ■ SET button to store the station.**

A preset number beginning from 1 in consecutive order for each band is assigned to the station.



- 3 Repeat steps 1 and 2.**

The next station will not be stored if a total of 32 preset stations for all the bands have already been stored.

PRESET NUMBER TUNING

Use the remote control to select the preset number directly.

- 1 Press the BAND button while pressing the SHIFT button to select a band.**
- 2 Press the numbered buttons to select a preset number.**

Example:

To select preset number 20, press the +10, +10 and 0 buttons.

To select preset number 15, press the +10 and 5 buttons.

Selecting a preset number on the main unit

Press the TUNER/BAND button to select a band. Then, press the ▶ PRESET button repeatedly.

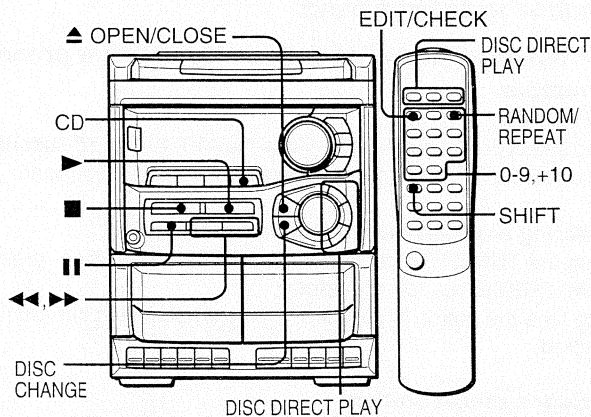
Each time the button is pressed, the next ascending number is selected.

To clear a preset station

Select the preset number of the station to be cleared. Then, press the ■ CLEAR button, and press the ■ SET button within 4 seconds.

The preset numbers of all other stations in the band with higher numbers are also decreased by one.

BASIC OPERATIONS

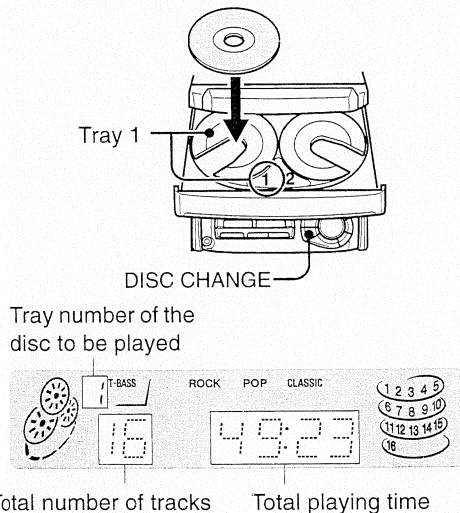


LOADING DISCS

Press the CD button, then press the **▲ OPEN/CLOSE** button to open the disc compartment. Load disc(s) with the label side up.

To play one or two discs, place the discs on tray 1 and 2.

To play three discs, press the DISC CHANGE button to rotate the trays after placing two discs. Place the third disc on tray 3. Close the disc compartment by pressing the **▲ OPEN/CLOSE** button.

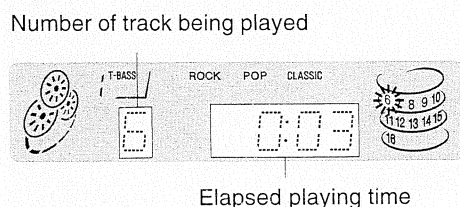


PLAYING DISCS

Load discs.

To play all discs in the disc compartment, press the **▶** button.

Play begins with the disc on tray 1.



To play one disc only, press one of the DISC DIRECT PLAY buttons.

The selected disc is played once.

To stop play, press the **■** button.

To pause play, press the **||** button. To resume play, press again.

To search for a particular point during playback, keep the **◀◀** or **▶▶** button pressed and release the button at the desired point.

To skip to the beginning of a track during playback, press the **◀◀** or **▶▶** button repeatedly.

To remove discs, press the **▲ OPEN/CLOSE** button.

To start play when the power is off (Direct Play Function)

Press the CD button. The power is turned on and play of the loaded disc(s) begins.

When the **▲ OPEN/CLOSE** button is pressed, the power is also turned on.

To check the remaining time

During play, press the EDIT/CHECK button on the remote control while pressing the SHIFT button. The amount of time remaining until all tracks finish playing is displayed. To restore the playing time display, repeat the above.

Selecting a track with the remote control

- 1 Press one of the DISC DIRECT PLAY buttons to select a disc.
- 2 Press the numbered buttons and the +10 button to select a track.

Example:

To select the 25th track, press the +10, +10 and 5 buttons.

To select the 10th track, press the +10 and 0 buttons.

The selected track starts to play and continues to the end of that disc.

Replacing discs during play

While one disc is playing, the other discs can be replaced without interrupting play.

- 1 Press the DISC CHANGE button.
- 2 Remove the discs and replace with other discs.
- 3 Press the **▲ OPEN/CLOSE** button to close the disc compartment.

NOTE

- When loading an 8-cm (3-inch) disc, put it onto the inner circle of the tray.
- Do not place more than one compact disc on one disc tray.
- Do not tilt the unit with discs loaded. Doing so may cause malfunctions.
- Do not use irregular shape CDs (example: heart-shaped, octagonal ones). It may result in malfunctions.

RANDOM /REPEAT PLAY

Use the remote control.

RANDOM play

All the tracks on the selected disc or on all the discs can be played randomly.

REPEAT play

A single disc or all the discs can be played repeatedly.

Press the RANDOM/REPEAT button while pressing the SHIFT button.

Each time it is pressed, the function can be selected cyclically.

RANDOM play — RANDOM lights up on the display.

REPEAT play —  lights up on the display.

RANDOM/REPEAT play — RANDOM and  light up on the display.

Cancel — RANDOM and  go out from the display.

To play all discs, press the  button to start play.

To play a single disc, press one of the DISC DIRECT PLAY buttons to start play.

NOTE

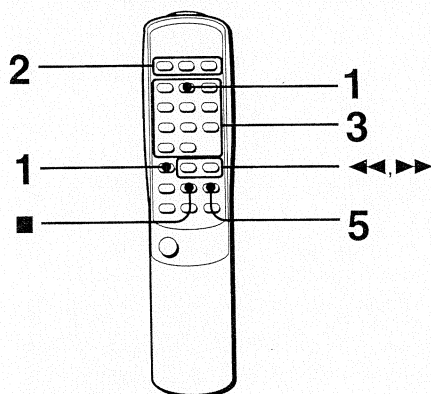
During random play following operations are not possible:

-to check the remaining time.

-to skip to the previously played track with the  button.

PROGRAMMED PLAY

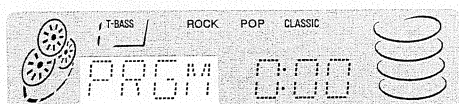
Up to 30 tracks can be programmed from any of the inserted discs.



Use the remote control.

1 Press the PRGM button while pressing the SHIFT button in stop mode.

The PRGM is displayed.



2 Press one of the DISC DIRECT PLAY buttons to select a disc.

Go to the next step when the tray stops rotating.

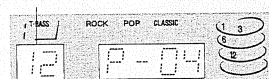
3 Press the numbered buttons and the +10 button to program a track.

Example:

To select the 25th track, press the +10, +10 and 5 buttons.

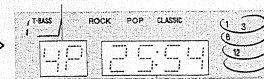
To select the 10th track, press the +10 and 0 buttons.

Selected track number



Program number

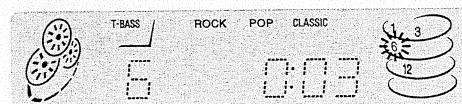
Total number of selected tracks



Total playing time of the selected tracks

4 Repeat steps 2 and 3 to program other tracks.

5 Press the  button to start play.



To check the program

Each time the  or  button is pressed in stop mode, a disc number, track number, and program number will be displayed.

To clear the program

Press the  CLEAR button in stop mode.

To add tracks to the program

Repeat steps 2 and 3 in stop mode. The track will be programmed after the last track.

To change the programmed tracks

Clear the program and repeat all the steps again.

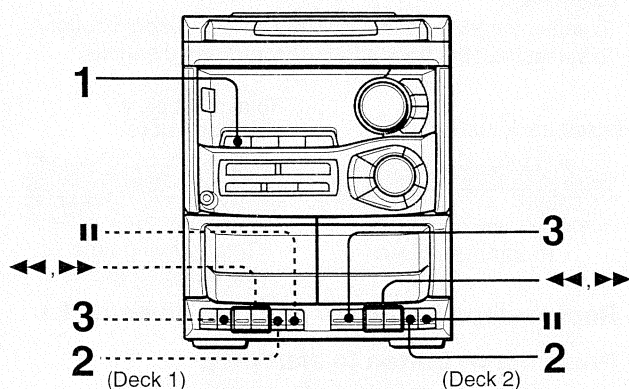
To play the programmed tracks repeatedly

After programming the tracks, press the RANDOM/REPEAT button repeatedly while pressing the SHIFT button until  appears on the display.

NOTE

During programmed play, you cannot perform random play, checking the remaining time, or selecting a disc or track.

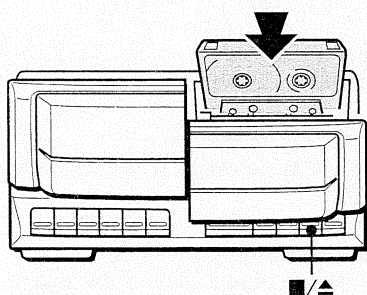
BASIC OPERATIONS



Use Type I (normal) tapes only.

1 Press the TAPE button

2 Press the ■/▲ button to open the cassette holder.



Insert a tape with the exposed side down. Push the cassette holder to close.

3 Press the ► button to start play.

Only the side facing out from the unit can be played back.

To stop play, press the ■/▲ button.

To pause play, press the II button. To resume play, press again.

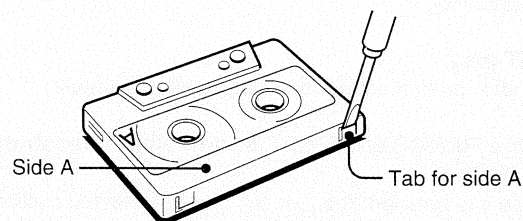
To fast forward or rewind, press the ◀▶ or ▶▶ button. Then press the ■/▲ button to stop winding.

When both deck 1 and deck 2 are set in the playback mode

Sound from deck 2 is heard.

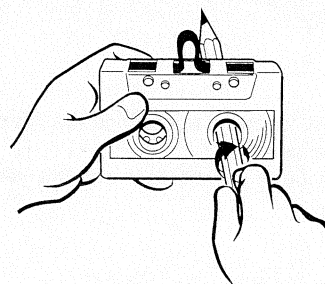
About cassette tapes

- **To prevent accidental erasure**, break off the plastic tabs on the cassette tape after recording with a screwdriver or other pointed tool.



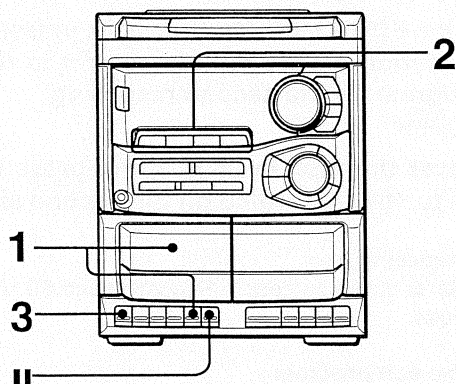
To record on the tape again, cover the tab openings with adhesive tape, etc.

- **120-minute or longer tapes** are extremely thin and easily deformed or damaged. They are not recommended.
- **Take up any slack in the tape** with a pencil or similar tool before use. Slack tape may break or jam in the mechanism.



BASIC RECORDING

This section explains how to record from the tuner, CD player, or external equipment.

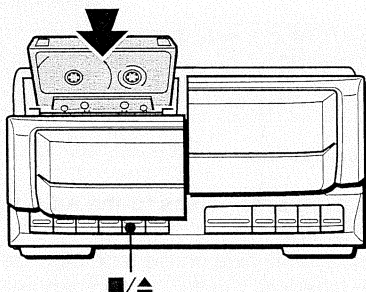


Preparation

- Use Type I (normal) tapes only.
- Set the tape to the point where recording will start.
- Note that recording is done only one side of the tape.

1 Insert the tape to be recorded on into deck 1.

Insert the tape with the side to be recorded on first facing out from the unit.



2 Press one of the function buttons and prepare the source to be recorded.

To record from a CD, press the CD button and load the disc(s).

To record from a tape, press the TAPE button. Then insert the original tape into deck 2 and play it.

To record from a radio broadcast, press the TUNER/BAND button and tune in to a station.

To record from a connected source, press the VIDEO/AUX button and play.

3 Press the ● button to start recording.

The ► button is depressed simultaneously.

When the selected function is CD, playback and recording start simultaneously.

To stop recording, press the ■/▲ button on deck 1.

To pause recording, press the || button on deck 1. To resume recording, press it again.

NOTE

If squealing or beating sounds occur when recording an MW or LW broadcast, press the MONO TUNER button on the remote control while pressing the SHIFT button until "BEAT 1" or "BEAT 2" is displayed, so as to eliminate the noise.

To record selected tracks of the CD

Before pressing the ● button, program the tracks (see page 10).

To start recording precisely (except when recording from a CD)

Before pressing the ● button at step 3 above, press the || button on deck 1. Then, press the ● button. The deck enters recording pause mode. To restart recording, press the || button again.

To record part of the CD

When the ● button is pressed, recording always starts from the first track. To start in the middle of a track, play the CD first and press the || button for CD at the point to start recording from. Then, press the ● button. The pause mode for CD is released automatically and recording starts.

NOTE

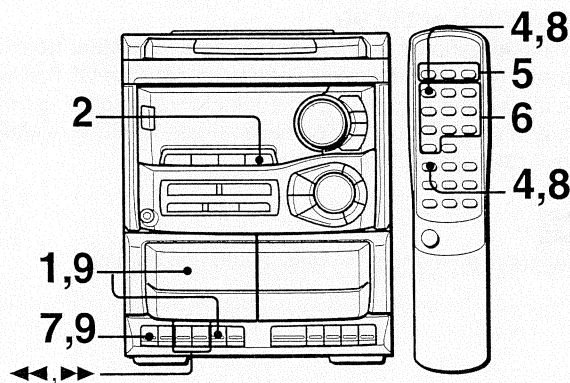
Do not press the buttons on deck 2 during recording.

To erase a recording

- 1 Insert the tape to be erased into deck 1 and press the TAPE button.
- 2 Wind up the tape to the point where the erasure is to be started.
- 3 Press the ● button to start the erasure.

AI EDIT RECORDING

The AI edit function enables CD recording without worrying about tape length and track length. When a CD is inserted, the unit automatically calculates the total track length. If necessary, the order of tracks is rearranged so that no track is cut short. (AI: Artificial Intelligence)



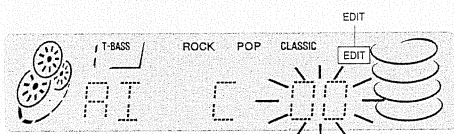
- 1 Insert the tape to be recorded on into deck 1, and wind up to the beginning of the front side.

Press the **■/▲** button to open the cassette holder and insert the tape with the exposed side down. Wind up the tape with the **◀◀** button.

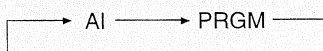
- 2 Press the CD button.

- 3 Load discs onto the trays.

- 4 Press the EDIT/CHECK button once while pressing the SHIFT button on the remote control. "EDIT" and "AI" are displayed.



Each time it is pressed, the display changes as follows.



- 5 Press one of the DISC DIRECT PLAY buttons to select a disc.

If only one disc is inserted, skip this step.

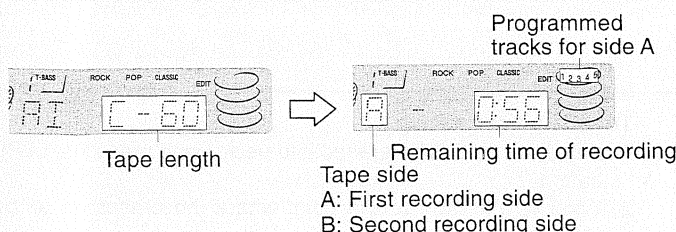
- 6 Press the numbered buttons on the remote control to designate the tape length.

10 to 99 minutes can be specified.

Example: When using a 60-minute tape, press the 6 and 0 buttons.

In a few seconds, the microcomputer programmes the tracks to be recorded on each side of the tape.

- The **◀◀** and **▶▶** buttons are also available to designate the tape length.



- 7 Press the **●** button on deck 1 to start recording on the first side.

CD play and recording of edited tracks for the first side start simultaneously. When the end of the tape is reached, deck 1 enters the recording stop mode. After entering the recording stop mode, go to step 8.

- 8 Press the EDIT/CHECK button while pressing the SHIFT button on the remote control to display the program for the second recording.

B is displayed.

- 9 Turn over the tape in deck 1 and press the **●** button to start recording on the second side.

To stop recording

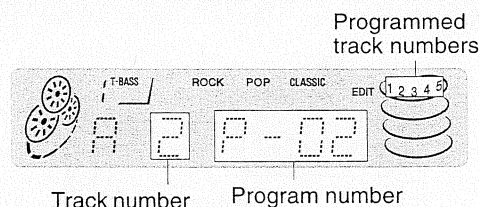
Press the **■/▲** button on deck 1. Recording and CD play stop simultaneously.

To clear the edit program

Press the **■** CLEAR button for CD twice in stop mode so that "EDIT" disappears on the display or the **▲** OPEN/CLOSE button for CD.

To check the order of the programmed track numbers

Before recording, press the EDIT/CHECK button while pressing the SHIFT button on the remote control to select side A or B, and press the **◀◀** or **▶▶** button repeatedly.



To add tracks from other discs to the edit program

Use the remote control.

If there is any time remaining on the tape after step 6, you can add tracks from other discs in the CD compartment.

- 1 Press the EDIT/CHECK button while pressing the SHIFT button to select side A or B.
- 2 Press one of the DISC DIRECT PLAY buttons to select a disc.
- 3 Press the numbered buttons to select tracks.
A track whose playing time is longer than the remaining time cannot be programmed.
- 4 Repeat steps 2 and 3 to add more tracks.

Time on cassette tapes and editing time

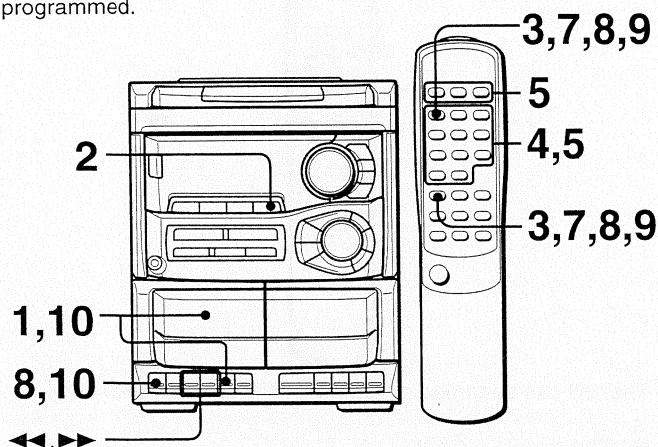
The actual cassette recording time is usually a little longer than the specified recording time printed on the label. This unit can program tracks to use the extra time. When the total recording time is a little longer than the tape's specified recording time after editing, the display shows the extra time (without a minus mark), instead of the time remaining on the tape (with the minus mark).

NOTE

The edit function cannot be used with discs containing 31 tracks or more.

PROGRAMMED EDIT RECORDING

Programmed edit function enables CD recording while checking the remaining time on each side of the tape as the tracks are programmed.



1 Insert the tape into deck 1.

Insert the tape with the side to be recorded on first facing out from the unit. Wind up the tape with the ◀◀ button.

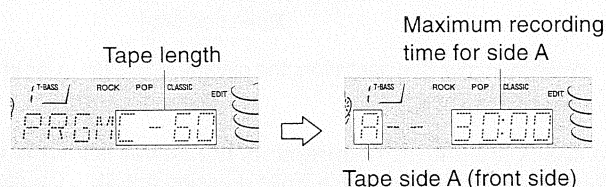
2 Press the CD button and load the disc(s).

3 Press the EDIT/CHECK button twice while pressing the SHIFT button on the remote control. "EDIT" and "PRGM" is displayed.

- When "A" is displayed, press the EDIT/CHECK button while pressing the SHIFT button again.

4 Press the numbered buttons on the remote control to designate the tape length.

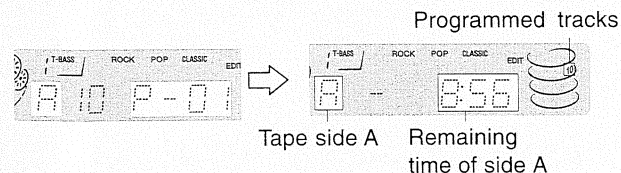
10 to 99 minutes can be specified.



5 Press one of the DISC DIRECT PLAY buttons to select a disc.

Then, press the numbered buttons and the + 10 button on the remote control to program a track.

Example: To select the 10th track of disc 2, press the DISC DIRECT PLAY 2 button, then press the + 10 and 0 buttons.

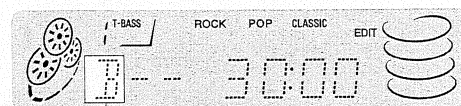


6 Repeat step 5 for the rest of the tracks for side A.

A track whose playing time is longer than the remaining time cannot be programmed.

7 Press the EDIT/CHECK button while pressing the SHIFT button on the remote control to select side B and program the tracks for side B.

After confirming B on the display, repeat step 5.



Tape side B (reverse side)

8 Press the EDIT/CHECK button while pressing the SHIFT button to select side A and press the ● button on deck 1 to start recording.

CD play and recording of edited tracks for the first side start simultaneously. When the end of tape is reached, deck 1 enters the recording stop mode. After entering the recording stop mode, go to step 9.

9 Press the EDIT/CHECK while pressing the SHIFT button on the remote control for recording of the second side.

After confirming B on the display go to step 10.

10 Turn over the tape in deck 1 and press the ● button to start recording.

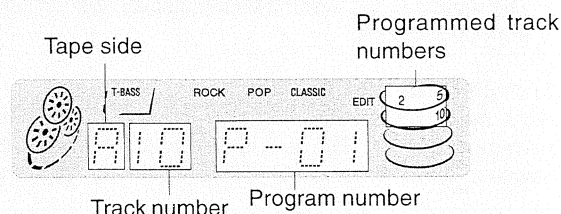
Recording starts.

To stop recording

Press the ■/▲ button on deck 1. Recording and CD play stop simultaneously.

To check the order of the programmed track numbers

Before recording, press the EDIT/CHECK button while pressing the SHIFT button on the remote control to select side A or B, and press the ◀◀ or ▶▶ button repeatedly.



To change the program of each side

Press the EDIT/CHECK button while pressing the SHIFT button on the remote control to select side A or B, and press the ■ CLEAR button to clear the program of the selected side. Then program tracks again.

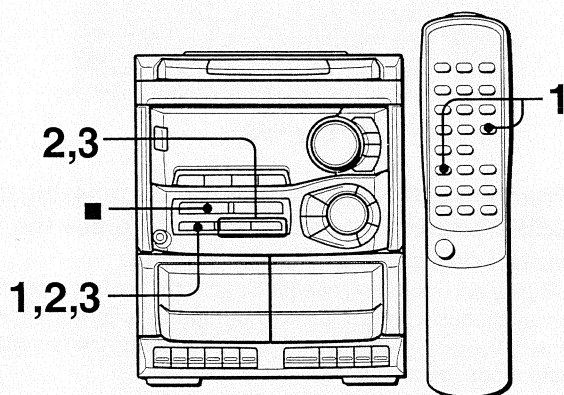
To clear the edit program

Press the ■ button twice so that "EDIT" disappears on the display.

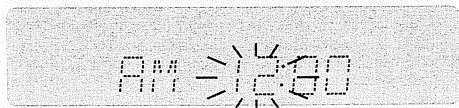
NOTE

Up to 30 tracks can be programmed from any of the inserted discs.

SETTING THE CLOCK



- 1 Press the CLOCK button while pressing the SHIFT button on the remote control, and press the **■** SET button within 4 seconds.**



- 2 Press the **◀** DOWN or **▶** UP button to designate the hour, and press the **■** SET button.**
The hour stops flashing and the minute starts flashing.

- 3 Press the **◀** DOWN or **▶** UP button to designate the minute, and press the **■** SET button.**

The minute stops flashing on the display and the clock starts from 00 seconds.

To display the current time

Press the CLOCK button while pressing the SHIFT button on the remote control. The time is displayed for 4 seconds. However, the time cannot be displayed during recording.

To switch to the 24-hour standard

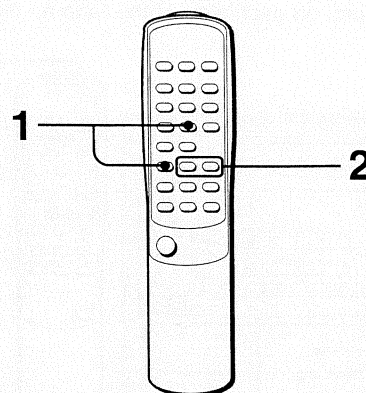
Press the CLOCK button while pressing the SHIFT button on the remote control and then press the **■** button within 4 seconds. Repeat the same procedure to restore the 12-hour standard.

If the clock display flashes

This is caused by a power interruption. The current time needs to be reset.

If power is interrupted for more than approximately 24 hours, all settings stored in memory after purchase need to be reset.

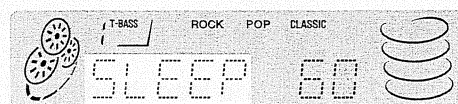
SETTING THE SLEEP TIMER



The unit can be turned off automatically at a specified time.

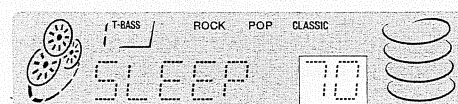
Use the remote control.

- 1 Press the SLEEP button while pressing the SHIFT button.**



- 2 Within 4 seconds, press the **◀** or **▶** button to specify the time until the power is turned off.**

Each time the button is pressed, the time changes between 5 and 240 minutes in 5-minute steps.



Specified time

While the timer is in operation, the display indication is dimmer than usual.

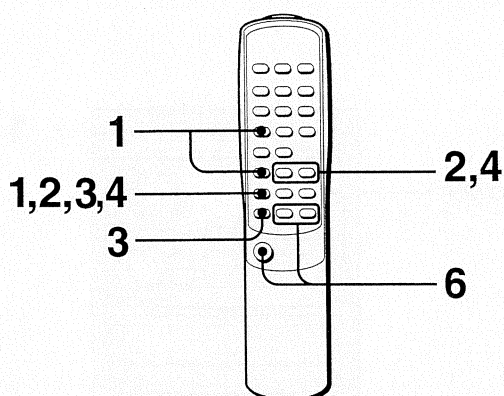
To check the time remaining until the power is turned off

Press the SLEEP button once while pressing the SHIFT button. The remaining time is displayed for 4 seconds.

To cancel the sleep timer

Press the SLEEP button twice while pressing the SHIFT button so that "SLEEP OFF" appears on the display.

SETTING THE TIMER



The unit can be turned on at a specified time every day with the built-in timer.

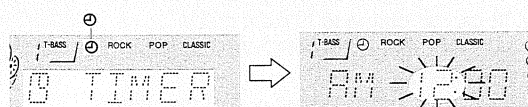
Preparation

Make sure the clock is set correctly.

Use the remote control.

- 1 Press the **TIMER** button while pressing the **SHIFT** button once, and press the **SET** button within 4 seconds.

⌚ is displayed and the hour flashes.

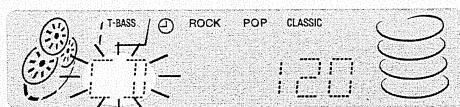


NOTE

If you press the **SET** button after 4 seconds, another operation may start.

- 2 Designate the hour of the timer-on time by pressing the **DOWN** or **UP** button, and press the **SET** button. Repeat to designate the minute of the timer-on time.

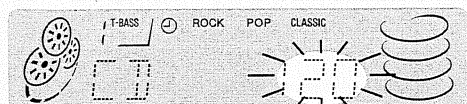
One of the source name flashes.



- 3 Press the **FUNCTION** button repeatedly to select a source, and press the **SET** button.

- If the **TUNER** button is pressed, the band cannot be selected in this step.

The duration for timer activated period flashes.



- 4 Press the **DOWN** or **UP** button to set the duration for the timer-activated period, and press the **SET** button.

The duration for the timer-activated period can be set between 5 and 240 minutes in 5-minute steps.

- 5 Prepare the source.

To listen to a CD, load the disc to be played first on tray 1.

To listen to a tape, insert the tape into deck 1 or 2.

To listen to the radio or record it, tune in to a station. To record it, insert the tape into deck 1.

- 6 Press the **POWER** button to turn the unit off after adjusting the volume and tone.

⌚ remains on the display after the power is turned off (timer standby mode).



The volume level is automatically set to 16 when the power is turned off with the volume level set to 17 or more.

- 7 Get ready for the **TAPE** function or the timer recording.

To listen to the tape, press the **▶** button.

To record the source, press the **●** button on deck 1.

When the timer-on time is reached, the unit turns on and begins play with the selected source. While the timer is in operation, the display indication is dimmer than usual.

The timer recording period and tape length

When the length of the tape to be recorded is shorter than the timer recording period, the **●** button on deck 1 is released before the timer is off.

When the tape length is longer than the timer recording period, the **●** button is not released. If the **●** is not released for a long time, the tape in the deck may be damaged. Press the **■/▲** button to release the **●** button.

To check the specified time and source

Press the **TIMER** button while pressing the **SHIFT** button. The timer-on time, the selected source name and the duration for the timer-activated period are displayed for 4 seconds.

To cancel the timer standby mode temporarily

Press the **TIMER** button twice while pressing the **SHIFT** button to display "OFF".

To restore the timer standby mode, press the **TIMER** button while pressing the **SHIFT** button to display ⌚.

Using the unit while the timer is set

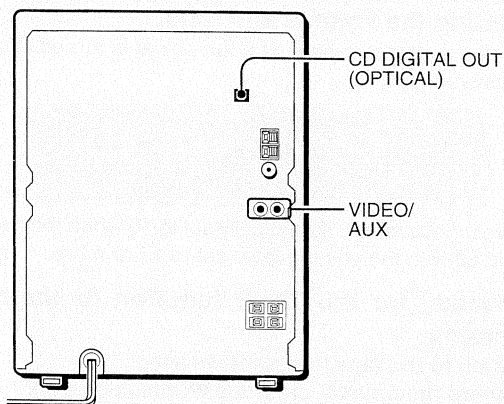
You can use the unit normally after setting the timer.

Before turning off the power, check whether the contents in step 5 and 6 are set as you wish, turn off the power and carry out step 7 if necessary.

NOTE

- Timer playback and timer recording will not begin unless the power is turned off.
- Connected equipment cannot be turned on and off by the built-in timer of this unit. Use an external timer.
- While the timer is in operation, the display indication is dimmer than usual.

CONNECTING OPTIONAL EQUIPMENT



Refer to the operating instructions of the connected equipment for details.

- The connecting cords are not supplied. Obtain the necessary connecting cords.
- Consult your local Aiwa dealer for optional equipment.

VIDEO/AUX JACKS

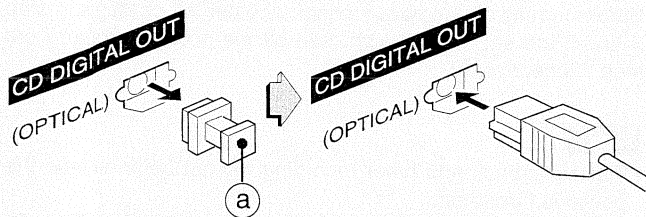
This unit can input analogue sound signals through these jacks. Use a cable with RCA phono plugs to connect audio equipment (turntables, LD players, MD players, VCRs, TV, etc.). Connect the red plug to the R jack, and the white plug to the L jack.

When connecting a turntable

Use an Aiwa turntable equipped with a built-in equalizer amplifier.

CD DIGITAL OUT (OPTICAL) JACK

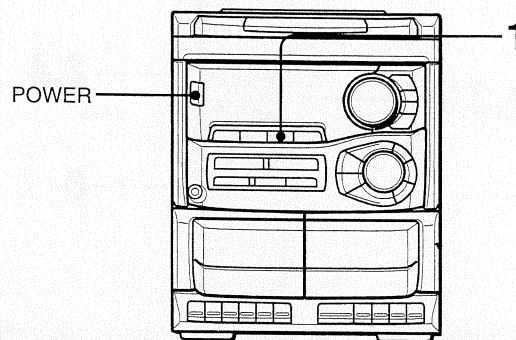
This unit can output CD digital sound signals through this jack. Use an optical cable to connect digital audio equipment (digital amplifier, DAT deck, MD recorder, etc.). Remove the dust cap ① from the CD DIGITAL OUT (OPTICAL) jack. Then, connect an optical cable plug to the CD DIGITAL OUT (OPTICAL) jack.



When the CD DIGITAL OUT (OPTICAL) jack is not being used

Attach the supplied dust cap.

LISTENING TO EXTERNAL SOURCES



To play equipment connected to the VIDEO/AUX jacks proceed as follows.

1 Press the VIDEO/AUX button.

VIDEO appears on the display.

2 Play the connected equipment.

To change a source name in the display

When the VIDEO/AUX button is pressed, VIDEO is displayed initially. It can be changed to AUX or TV.

With the power on, press the POWER button while pressing the VIDEO/AUX button.

Repeat the procedure to select one of the names.

CARE AND MAINTENANCE

Occasional care and maintenance of the unit and the software are needed to optimize the performance of your unit.

To clean the cabinet

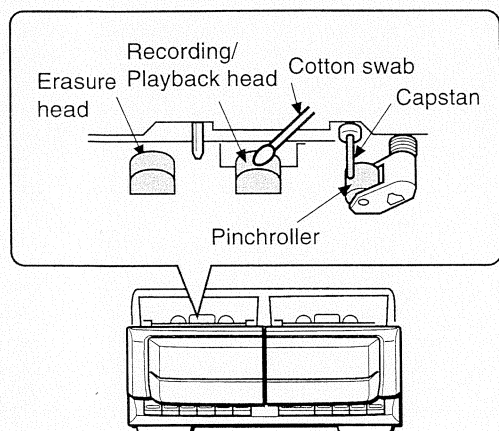
Use a soft and dry cloth.

If the surfaces are extremely dirty, use a soft cloth lightly moistened with mild detergent solution. Do not use strong solvents, such as alcohol, benzine or thinner as these could damage the finish of the unit.

To clean the heads and tape paths

After every 10 hours of use, clean the heads and tape paths with a head cleaning cassette or cotton swab moistened with cleaning fluid or denatured alcohol. (These cleaning kits are commercially available.)

When cleaning with a cotton swab, wipe the recording/playback head (deck 1 only), erasure head (deck 1 only), capstans, and pinchrollers.



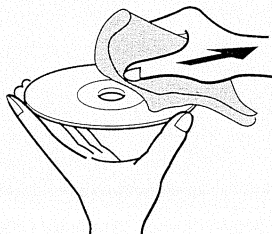
After cleaning the heads and tape paths with a liquid head cleaning cassette or a moistened swab, wait until the cleaned parts are completely dry before inserting the tapes.

To demagnetize the heads

The heads may become magnetized after long-term use. This may narrow the output range of recorded tapes and increase noise. After 20 to 30 hours use, demagnetize the heads with any commercially available demagnetizer.

Care of discs

- When a disc becomes dirty, wipe the disc from the centre out with a cleaning cloth.



- After playing a disc, store the disc in its case. Do not leave the disc in places that are hot or humid.

Care of tapes

- Store tapes in their cases after use.
- Do not leave tapes near magnets, motors, television sets, or any source of magnetism. This will downgrade the sound quality and cause noise.
- Do not expose tapes to direct sunlight, or leave them in a car parked in direct sunlight.

TROUBLESHOOTING GUIDE

If the unit fails to perform as described in these Operating Instructions, check the following guide.

GENERAL

There is no sound.

- Is the AC cord connected properly?
- Is there a bad connection? (→ page 3)
- There may be a short circuit in the speaker terminals.
 - Disconnect the AC cord, then correct the speaker connections.
- Was an incorrect function button pressed?

Sound is emitted from one speaker only.

- Is the other speaker disconnected?

An erroneous display or a malfunction occurs.

- Reset the unit as stated below.

TUNER SECTION

There is constant, wave-like static.

- Is the antenna connected properly? (→ page 3)
- Is the signal weak?
 - Connect an outdoor antenna.

The reception contains noise interferences or the sound is distorted.

- Is the system picking up external noise or multipath distortion?
 - Change the orientation of the antenna.
 - Move the unit away from other electrical appliances.

CASSETTE DECK SECTION

The tape does not run.

- Is a deck in pause mode? (→ page 11)

The sound is off-balance or not adequately high.

- Is the playback head dirty? (→ page 18)

Recording is not possible.

- Is the erasure prevention tab on the tape broken off? (→ page 11)
- Is the recording head dirty? (→ page 18)

Erasure is not possible.

- Is the erasure head dirty? (→ page 18)
- Is a CrO₂ or metal tape being used?

High frequency sound is not emitted.

- Is the recording/playback head dirty? (→ page 18)

CD PLAYER SECTION

The CD player does not play.

- Is the disc correctly inserted? (→ page 9)
- Is the disc dirty? (→ page 18)
- Is the lens affected by condensation?
 - Wait approximately one hour and try again.

To reset

If an unusual condition occurs in the display window, reset the unit as follows.

- 1 Press the POWER button to turn off the power.
- 2 Press the POWER button to turn the power back on while pressing the ■ CLEAR button. Everything stored in memory after purchase is cancelled.

If the power cannot be turned off in step 1 because of a malfunction, reset by disconnecting the AC cord, and connect it again. Then repeat step 2.

SPECIFICATIONS

Main unit CX-NS202

FM tuner section

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	16.8 dBf
Antenna terminals	75 ohms (unbalanced)

MW tuner section

Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity	350 μ V/m
Antenna	Loop antenna

LW tuner section

Tuning range	144 kHz to 290 kHz
Usable sensitivity	1400 μ V/m
Antenna	Loop antenna

Amplifier section

Power output	Rated: 12 W + 12 W (6 ohms, T.H.D. 1 %, 1 kHz/DIN 45500) Reference: 15 W + 15 W (6 ohms, T.H.D. 10 %, 1 kHz/DIN 45324)
Total harmonic distortion	0.1 % (6 W, 1 kHz, 6 ohms, DIN AUDIO)
Inputs	VIDEO/AUX: 500 mV
Outputs	SPEAKERS: accept speakers of 6 ohms or more PHONES (stereo jack): accepts headphones of 32 ohms or more

Cassette deck section

Track format	4 tracks, 2 channels stereo
Frequency response	50 Hz – 10000 Hz
Recording system	AC bias
Heads	Deck 1: Recording/playback head $\times$ 1, erase head $\times$ 1 Deck 2: Playback head $\times$ 1

Compact disc player section

Laser	Semiconductor laser ($\lambda = 780$ nm)
D-A converter	1 bit dual
Signal-to-noise ratio	85 dB (1 kHz, 0 dB)
Harmonic distortion	0.05 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

General

Power requirements	230 V AC, 50 Hz
Power consumption	55 W
Dimensions of main unit (W $\times$ H $\times$ D)	260 $\times$ 324 $\times$ 337 mm
Weight of main unit	4.6 kg

Speaker system SX-NS202

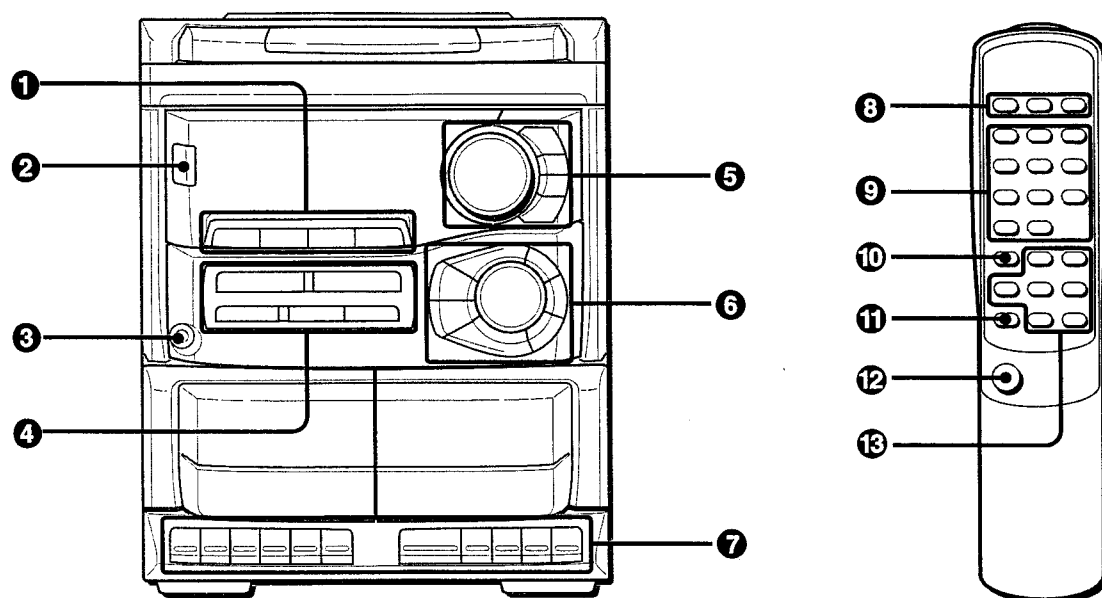
Cabinet type	2 way, bass reflex (magnetic shielded type)
Speakers	Woofer: 120 mm cone type Tweeter: 20 mm ceramic type
Impedance	6 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W $\times$ H $\times$ D)	230 $\times$ 324 $\times$ 250 mm
Weight	3.2 kg

Specifications and external appearance are subject to change without notice.

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